

Product datasheet for AR51448PU-N

OriGene Technologies, Inc.

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PAICS / ADE2 (1-425, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: PAICS / ADE2 (1-425, His-tag) human recombinant protein, 0.5 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMATAEVL NIGKKLYEGK TKEVYELLDS PGKVLLQSKD QITAGNAARK NHLEGKAAIS NKITSCIFQL LQEAGIKTAF TRKCGETAFI APQCEMIPIE WVCRRIATGS

FLKRNPGVKE GYKFYPPKVE LFFKDDANND PQWSEEQLIA AKFCFAGLLI GQTEVDIMSH ATQAIFEILE KSWLPQNCTL VDMKIEFGVD VTTKEIVLAD VIDNDSWRLW PSGDRSQQKD KQSYRDLKEV TPEGLQMVKK NFEWVAERVE LLLKSESQCR VVVLMGSTSD LGHCEKIKKA CGNFGIPCEL RVTSAHKGPD ETLRIKAEYE GDGIPTVFVA VAGRSNGLGP VMSGNTAYPV ISCPPLTPDW GVQDVWSSLR LPSGLGCSTV LSPEGSAQFA AQIFGLSNHL VWSKLRASIL

NTWISLKQAD KKIRECNL

Tag: His-tag
Predicted MW: 49.5 kDa
Concentration: lot specific

Purity: >90% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl, 1 mM DTT

Preparation: Liquid purified protein

Protein Description: Recombinant human PAICS protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001072992

Locus ID: 10606 UniProt ID: <u>P22234</u>





Cytogenetics: 4q12

Synonyms: ADE2; ADE2H1; AIRC; PAIS

Summary: This gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole

carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole

succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes

an enzyme in the same pathway, and transcription of the two genes is coordinately

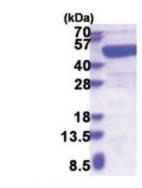
regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul

2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



15% SDS-PAGE (3ug)